

SOURIAU



**Our ref. :** LR L2017-007

**Subject:** UL Certificate of compliance for UTO connectors with their contacts.

Champagné, 26th June 2017.

Mrs, Mr,

Following the tests that we have performed in UL organism, we confirm that UTO serie connectors are UL recognized components in conformity with UL 1977 & CSA-C22.2 n°182.3 standards, respectively ECBT2 and ECBT8 categories.

Component – Connectors for use in data , signal, control and power applications.

✓ Connectors UTO Series:

- Project 12CA14828 May 29, 2012 (Vol 1 sec 8)
- Service Request 1827288.351623 Revised: July 31, 2003 (Vol 1 sec 13)
- Service Request 1827288.351623 March 3, 2006 (Vol 1 sec 15)
- Service Request 1827288.351623 January 25, 2011 (Vol 1 sec 19)

Please find on the following pages , the UL certification of compliance and the rated current qualified according to connector part number

Best regards,

Céline COUSIN  
**Qualité développement**

















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RCS : B 421 320 268 – TVA FR 85 421 320 268 – N°Siret : 421 320 268 00087 code APE 312 A

## SOURIAU

### 1. UTO Series OVERVIEW

Layouts (Electrical parameter according to UL1977)

Shell size	Contact #16 (Ø 1.6)	Contact #20 (Ø 1.0)	Contact #8 (Ø 3.6)	Mixed power
10	<p>103 10A 500V 2 contacts +ground 3xØ1.6 (#16)</p>  <p>Page 20</p> <p>104* 10A 500V 4 contacts 4xØ1.6 (#16)</p>  <p>Page 36</p>	<p>106* 5A 250V 6 contacts 6xØ1.0 (#20)</p>  <p>Page 44</p>		<p>102W2 20A 500V 4 contacts 2xØ2.4 (#12) 2xØ1.0 (#20)</p>  <p>Page 32</p> <p>103W3 5A 250V 6 contacts 3xØ1.6 (#16) 3xØ1.0 (#20)</p>  <p>Page 40</p>
12	<p>124 16A 500V 3 contacts +ground 4xØ1.6 (#16)</p>  <p>Page 28</p> <p>128 10A 500V 8 contacts 8xØ1.6 (#16)</p>  <p>Page 52</p>	<p>1210* 5A 250V 10 contacts 10xØ1.0 (#20)</p>  <p>Page 60</p>		
14	<p>147 10A 500V 6 contacts +ground 7xØ1.6 (#16)</p>  <p>Page 48</p> <p>1412 10A 500V 12 contacts 12xØ1.6 (#16)</p>  <p>Page 64</p>	<p>1419 5A 250V 19 contacts 19xØ1.0 (#20)</p>  <p>Page 72</p>	<p>142G1 44A 600V 2 contacts +ground 3xØ3.6 (#8)</p>  <p>Page 24</p>	<p>148 25A 250V 8 contacts 4xØ2.4 (#12) 4xØ1.6 (#16)</p>  <p>Page 56</p>
	<p>1492 10A 500V 12 contacts 12xØ1.6 (#16)</p>  <p>Page 68</p>			
16	<p>1619* 9A 500V 19 contacts 19xØ1.6 (#16)</p>  <p>Page 76</p>	<p>1626 4A 250V 26 contacts 26xØ1.0 (#20)</p>  <p>Page 84</p>		






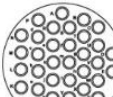

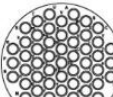
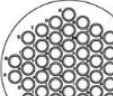

\* Ethernet compatible see page 164 & 165

Contacts #16:  
from AWG 30 to 14,  
0.05 to 2.5 mm<sup>2</sup>

Contacts #20:  
from AWG 26 to 18,  
0.13 to 0.93 mm<sup>2</sup>

Contacts #8:  
from AWG 16 to 8,  
1.5 to 10 mm<sup>2</sup>

Contacts #12:  
from AWG 22 to 12,  
0.13 to 4 mm<sup>2</sup>

Shell size	Contact #16 (Ø 1.6)	Contact #20 (Ø 1.0)
18	<p>1823 8A 500V 23 contacts 23xØ1.6 (#16)</p>  <p>Page 80</p>	<p>1832 4A 250V 32 contacts 32xØ1.0 (#20)</p>  <p>Page 96</p>
20	<p>2028 5A 500V 28 contacts 28xØ1.6 (#16)</p>  <p>Page 88</p> <p>2030 5A 500V 30 contacts 30xØ1.6 (#16)</p>  <p>Page 92</p>	<p>2041 3A 250V 41 contacts 41xØ1.0 (#20)</p>  <p>Page 108</p>
22	<p>2235 5A 500V 35 contacts 35xØ1.6 (#16)</p>  <p>Page 100</p> <p>2238 5A 500V 38 contacts 38xØ1.6 (#16)</p>  <p>Page 104</p>	<p>2255 3A 250V 55 contacts 55xØ1.0 (#20)</p>  <p>Page 116</p>
24	<p>2448 5A 500V 48 contacts 48xØ1.6 (#16)</p>  <p>Page 112</p>	<p>2461 3A 250V 61 contacts 61xØ1.0 (#20)</p>  <p>Page 120</p>

## 2. UTO Serie

### a. UL certification:

Report E169916-20161129 : UL1977 - CAN/CSA C22.2 No. 182.3

#### CERTIFICATE OF COMPLIANCE

Certificate Number 20161129-E169916  
 Report Reference E169916-20120529  
 Issue Date 2016-NOVEMBER-29

Issued to: SOURIAU  
 RD 323, 72470 CHAMPAGNE FRANCE


This is to certify that representative samples of COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS  
 See next Page for Models

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1977, Component Connectors for Use in Data, Signal, Control and Power Applications  
 CAN/CSA C22.2 No. 182.3-M1987, Special Use Attachment Plugs, Receptacles and Connectors

Additional Information: See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark:  may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

  
 Bruce Mahrenholz, Director North American Certification Program  
 UL LLC

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#### CERTIFICATE OF COMPLIANCE

Certificate Number 20161129-E169916  
 Report Reference E169916-20120529  
 Issue Date 2016-NOVEMBER-29

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models:

USR/CNR Component Connector, Series UT0, followed by 6, followed by 1412, followed by P or S, followed by H02.

USR/CNR Component Connector, Series UT0, followed by 7, followed by 1412, followed by P or S, followed by H660.

USR/CNR Component Connector, Series UT0, followed by 0, 1, 6 or 7, followed by 148, 1492, 2030 or 2238 followed by P or S, maybe followed by W, X, Y or Z, followed by H or H6, maybe followed by 01, 02 or 05.

  
 Bruce Mahrenholz, Director North American Certification Program  
 UL LLC

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### CERTIFICATE OF COMPLIANCE

Certificate Number 20140714-E169916  
Report Reference E169916-20000810  
Issue Date 2014-JULY-14

Issued to: SOURIAU SAS  
RD 323  
72470 CHAMPAGNE FRANCE


This is to certify that representative samples of COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS Series UTO Bantam

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1977, Component Connectors for Use in Data, Signal, Control and Power Applications

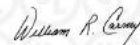
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William R. Casmy, Director, North American Certification Programs  
UL LLC

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### CERTIFICATE OF COMPLIANCE

Certificate Number 20140714-E169916  
Report Reference E169916-20060303  
Issue Date 2014-JULY-14

Issued to: **SOURIAU SAS**  
RD 323  
72470 CHAMPAGNE FRANCE


This is to certify that representative samples of **COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS**  
Series UTOW High Density Metal Circular Connectors

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1977, Component Connectors for Use in Data, Signal, Control and Power Applications

Additional Information: See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

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Look for the UL Recognized Component Mark on the product.



William R. Carney, Director, North American Certification Programs  
UL LLC

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### CERTIFICATE OF COMPLIANCE

Certificate Number 20140714-E169916  
Report Reference E169916-20110125  
Issue Date 2014-JULY-14

Issued to: **SOURIAU SAS**  
RD 323  
72470 CHAMPAGNE FRANCE

This is to certify that representative samples of **COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS**  
Connector, Cat. No. UTO7142G1PH6.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: **UL 1977, Component Connectors for Use in Data, Signal, Control and Power Applications**

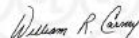
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William R. Carney, Director, North American Certification Programs  
UL LLC

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**b. Rated current qualified according to connector part number and contact.**

Cat. Nos.	No. of poles	Crimp Contact Size	Machined Crimp Contact	Conductor Sizes, AWG Str	Voltage, Vac	Ampere, A	
						UL	CSA
UT0-1412 UT071412PH660 UT071412SH660	12	#16	RM16M23K RC16M23K	16	500	10	7
UT061412PH02 UT061412SH02	12	#16	SM16M1S6 SC16M1S6	16	500	10	7.5
UT0-142G1 UT07142G1PH6	3 (power)	3.55	82911683N	10	600	44	
UT0-148, UT00148PH UT00148PH6 UT00148SH UT00148SH6 UT06148PH02 UT06148PH UT06148SH02 UT06148SH UT07148PH UT07148PH601 UT07148PH6 UT07148SH UT07148SH601 UT07148SH6	4 (power)	#12	82911464A/ 82911465NA	14	600	25	17
	4 (signal)	#16	RM16M23K RC16M23K	20	600	5	5
UT0-1492 UT001492PH UT001492PH6 UT001492SH UT001492SH6 UT001492SWH UT001492SXH UT001492SYH UT011492SH UT061492PH02 UT061492PH UT061492PXH UT061492PYH UT061492SH02 UT061492SH UT061492SWH UT071492PH01 UT071492PH UT071492SH	12	#16	RM16M23K RC16M23K	16	500	10	7
	12	#16	SM16M1S6 SC16M1S6	16	500	10	7.5

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Cat. Nos.	No. of poles	Crimp Contact Size	Machined Crimp Contact	Conductor Sizes, AWG Str	Voltage, Vac	Ampere, A	
						UL	CSA
UT0-2030 UT002030PH UT002030PH6 UT002030SH UT002030SH6 UT002030SWH UT002030SXH UT012030SH UT062030PH02 UT062030PH UT062030SH UT072030PH UT072030PH6 UT072030SH01 UT072030SH UT072030SH6	30	#16	RM16M23K RC16M23K	16	500	5	5
UT0-2238 UT002238PH UT002238PH6 UT002238PWH UT002238PWH6 UT002238PXH UT002238PXH6 UT002238SH UT002238SH6 UT062238PH UT062238SH UT062238SWH UT062238SXH UT072238PH UT072238PH6 UT072238SH UT072238SH6	38	#16	RM16M23K RC16M23K	16	500	5	5

These devices have not been tested for interrupting the flow of current by connecting or disconnecting the mating connector. These devices should be used only where they will not interrupt the flow of current.



### **3. Qualification report associated**

**JQP2012-070** : Extract of UL report “UTO“ Serie E169916

- Volume 1 section 8

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## 4. Crimp Tooling



Contact size	Part number	Head*	Handles*
#20 Ø0.039"	RM/RC 24W3K	S20RCM	SHANDLES
	RM/RC 20W3K		
	RM/RC 18W3K		
	SM 24WL3S <sup>*(1)</sup>	S20SCM20	
	SC 24WL3S <sup>*(1)</sup>		
	SM/SC 20WL3S <sup>*(1)</sup>		
#16 Ø0.062"	RM/RC 28M1*	S16RCM20	
	RM/RC 24M9*		
	RM/RC 20M13*		
	RM/RC 20M12*		
	RM/RC 16M23*	S16RCM16	
	RM/RC 14M30*	S16RCM14	
	SM/SC 24ML1 <sup>*(1)</sup>	S16SCM20	
	SM/SC 20ML1 <sup>*(1)</sup>		
	SM/SC 16ML1 <sup>*(1)</sup>	S16SCML1	
	SM/SC 14ML1 <sup>*(1)</sup>	S16SCML11	
	SM/SC 16ML11 <sup>*(1)</sup>		

Contact size	Part number	Tool with separate locator		
		Hand tool	Positioner + locator setting	
#12 Ø0.094"	82911457N* / 82911456*	M317	VGE10077A	
	82911459N* / 82911458*			1-2
	82911461N* / 82911460*			2
	82911463N* / 82911462*			2
	82911465N* / 82911464*			3
	82911467N* / 82911466*			3
#8 Ø0.141"	82913601A / 82913600A	M317	VGE10078A	
	82913603A / 82913602A			3
	82913605A / 82913604A			3
	82913607A / 82913606A			4
	82913609A / 82913608A			5
				6/7